

Guide to Features

6140-100, 10D, E10, E1D, EP1
6140-120, 12D, E20, E2D, EP2
6140-A30, A3R, E30, E3R

TCxWave by Toshiba

Version 4.0

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6140 TCxWave

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The “Fine Print”

This Document is a derivative work. The source documents are not required to stay in sync with this guide.

The Feature Codes relate precisely to the Offering Structure and Sales Manual. The Part Number that is included is the “Top Bill” part number which is used to build the ordering tables. The Top Bill DOES NOT SHIP to a customer. This part number causes SMU Parts (Shippable Manufacturing Units) to be assembled and shipped. The SMU number changes frequently during the life cycle of a product.

FRU Numbers, where listed, are for those features where a one-to-one relationship exists between the Feature Code and the Field Replaceable Unit number. The source guide for these is the Hardware Service Manual (one for TCxWave, a separate one for the TCxWave Hub, and the I/O Service Manual, accessed from the PUBLICATION tab on the TechLine Support page.

<http://www-1.ibm.com/support/search.wss?rs=219&q=PUB6140>

I/O Service Manual:

<http://www-1.ibm.com/support/docview.wss?rs=219&q1=PUB4800&uid=pos1R7000105>

If you have questions, concerns, or suggestions, please send them to us as a TechLine inquiry.

<http://www2.clearlake.ibm.com/store/support/html/hquestions.html>

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6140 TCxWave Overview

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Naming Convention for Model Numbers

The first and second digit is an indication of the OS

- 10x – No operating system preloaded
- E1x – Preloaded with Microsoft POSReady 2009, 7, or Windows 7 Pro-32Bit
- 12x – i3 Processor, No operating system preloaded
- E2x – i3 Processor, Preloaded with Microsoft POSReady 2009, 7, or Windows 7 Pro-32Bit
- EPx, ExP – Europe Only – Printer bundle with Preloaded OS

The third digit is processor and maintenance during the Warranty period

- xx0 On Site Toshiba Service during warranty period
- xxD = Depot Repair service (mail-in)
- Axx – Depot Service during Warranty period
- xxR – On Site Toshiba Service during warranty period

Tailgate



Models 100, 120 (and administrative variations)



Models x3x (and administrative variations)

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**6140 TCxWave
Dock**

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Note: The RS-232 ports from the x3x model are not exposed on the DOCK / Base.

GETTINGS STARTED GUIDES:

x3x Models - <http://www-01.ibm.com/support/docview.wss?rs=219&uid=pos1R1005069>

100 Models - <http://www-01.ibm.com/support/docview.wss?rs=219&uid=pos1R1004898>

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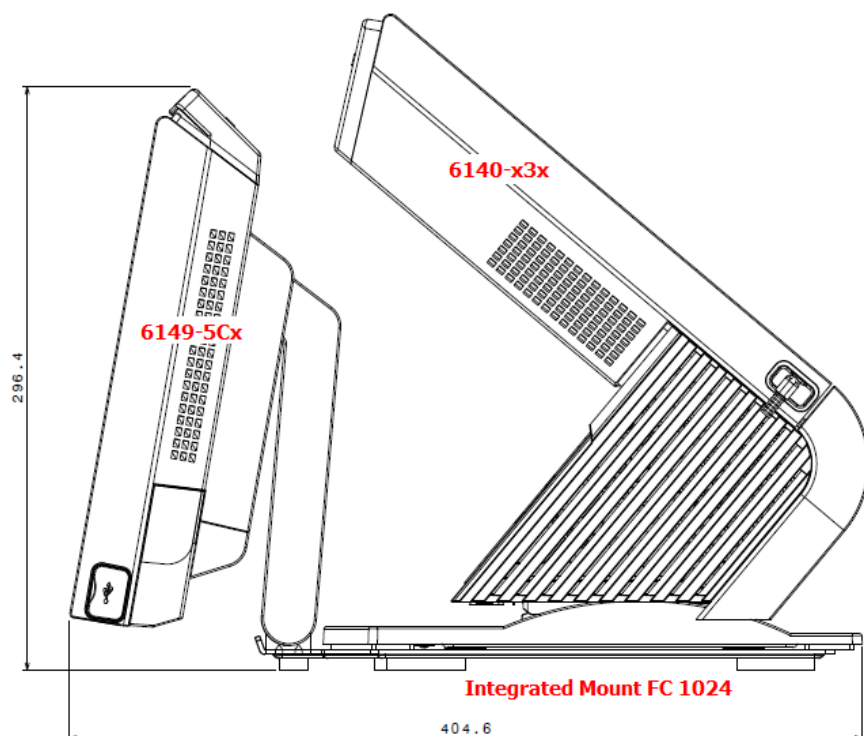
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TCxWave Dimensions

Models	TCxWave Dimensions	Height	Width	Depth	Weight
A3x , E3x	POS System (head mounted on base)	332.6 mm (13.10 in.)	367 mm (14.4 in.)	305 mm (12 in.)	9 kg (20 lbs)
	Head	337 mm (13.25 in.)	367 mm (14.4 in.)	76 mm (3 in.)	5 kg (11 lbs)
	Dockable POS Base	191 mm (7.5 in.)	367 mm (14.4 in.)	292 mm (11.5 in.)	4 kg (9 lbs)
10x, E1x, 12x, E2x, EP2	POS System (head mounted on base)	Head rotated fully forward 336.7mm (13.26 in.) Head rotated fully back 332.6 mm (13.10 in.)	470 mm (18.5 in.)	305 mm (12 in.)	10.4 kg (23 lbs)
	Head	337 mm (13.25 in.)	470 mm (18.5 in.)	76 mm (3 in.)	6.4 kg (14 lbs)
	Dockable POS Base	191 mm (7.5 in.)	470 mm (18.5 in.)	292 mm (11.5 in.)	4 kg (9 lbs)
All	POS Hub	78 mm (3.073 in.)	185 mm (7.289 in.)	205 mm (8.077 in.)	2.72 kg (6 lbs)

The SECOND DISPLAY mount for the x3x models is intended for the Toshiba 6149-5Cx ONLY.



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Things I wish I had read before placing my first order of the TCxWave

1. The Base unit consists of a Head. If you want the Base Dock or the POS Hub, then you need to order it. **If you are NOT using the dock, you should order the VESA Covers FC 5101 or 5190.**
2. Referring to item 1, without the Base Dock FC 1020, 21, 22, or 1023, you will need to procure some device that has a Vesa-100 mounting plate that is rigid enough to support the TCxWave head. Please make absolutely sure that you have tested this with your customer in their lab before committing to an insufficient mounting scheme.
3. PC DOS will not work on this platform
4. The legacy cash drawers (FC 4881, 4408, 4409, or 4484) will only connect if the POS Hub FC 1400 is ordered, and then only one drawer of this type is supported.
5. The only exception to item 4.) above is in the event that you fire two legacy cash drawers off of a Toshiba 4610 Printer using the FC 3387 cable. This obscure configuration would require a custom splitter cable.
6. New USB cash drawers (FC 4508, 4509, 4510) require special cables and OPOS drivers.
7. The USB cash drawer has a 5V and a latching 12V USB cable. Please make sure that you order the standard, non-powered 5V cable if you do NOT buy the Dock or the POS Hub.
8. Order the Micro SD card if you intend to use 4690OS. This provides the NVRAM. **Neither the Micro SD nor 4690OS are released for the x3x models**
9. The -100, -10D, -120, -1D, A3x models **DO NOT HAVE AN SSD** unless either FC 7320, 7322, 7324, or 7328 is ordered. The E-models (preloaded) DO have an SSD. The -1xx amd -12x generation can ONLY HOLD ONE SSD. There is an MES SSD feature 7321 that one may order as a spare. This will NOT fit into the machine at the same time as the base SSD. **New for the A30.** E30 models is an adapter to allow DUAL M2 SSDs and a choice (mandatory) to select a 128Gb or 64Gb Drive.
10. The x3x models use an M2 solid state memory module. Tis is different from the 100 and 120 series of the TCxWave.
11. MEMORY MODULES in the **x3x models MUST BE PAIRED**. If you order the base model, you will then be limited to a maximum future expansion of 4Gb. If you anticipate **EVER** needing 8Gb, then you should order the 4Gb FC FROM the factory. The PAIRING requirement will need to be considered as future field upgrades are made.
12. The iModule and iButton (Dallas Key) are only available on the x3x model.
13. The Compact ANPOS keyboard is not supported by 4690OS. There is no mechanism to prevent one from ordering this keyboard. You simply have to read the sales guides.
14. The x3x model utilizes an RJ45 Serial cable. There is also a POWERED RF45 to 9 pin Smart Cable in the event that you wish to use a 9 pin powered RS232 connection. Please refer to the Getting Started Guide for information. **PLEASE NOTE THAT THIS CABLE CANNOT BE USED WITH THE BASE / DOCK**
15. The TCxWave uses a Display Port instead of a VGA Port. Make sure that you order the DP to VGA Feature 5182 if you intend to use a VGA display as a secondary display
16. You must have a power supply on the order. Therefore, one of FC feature 1020, 1022, or 1400 or 4930 must be ordered. If you order the MES Base Dock 1021 or 1023, the configuration tables will still require that you order a PS brick.
17. The FC 1024 Second Display mount was designed for the Toshiba 6149-5Cx display ONLY. The POS Base FC 1022 or 1023 is REQUIRED for proper mounting.

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6140 TCxWave The Base Unit

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The “P” Bundle Model EP1, EP2

This is announced in Europe Only

This includes:

Model E10 or E20 with 64GB SSD ON Site Service by IBM Service

Choice of preload feature (POSReady 2009 , POSReady 7 or Windows 7)



SureMark 4610 Single Station 1NR

USB Interface (80mm paper) with USB Cable (4919) or standard USB (4924)

Country code select printer power cord (must have feature 1020, 1022, or 1400 or 4930 on order)

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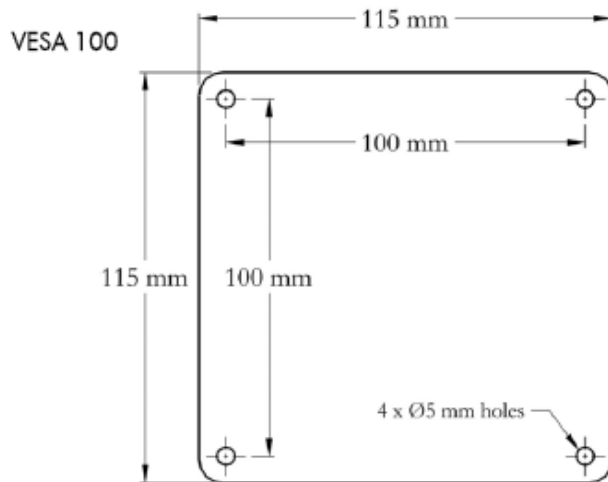
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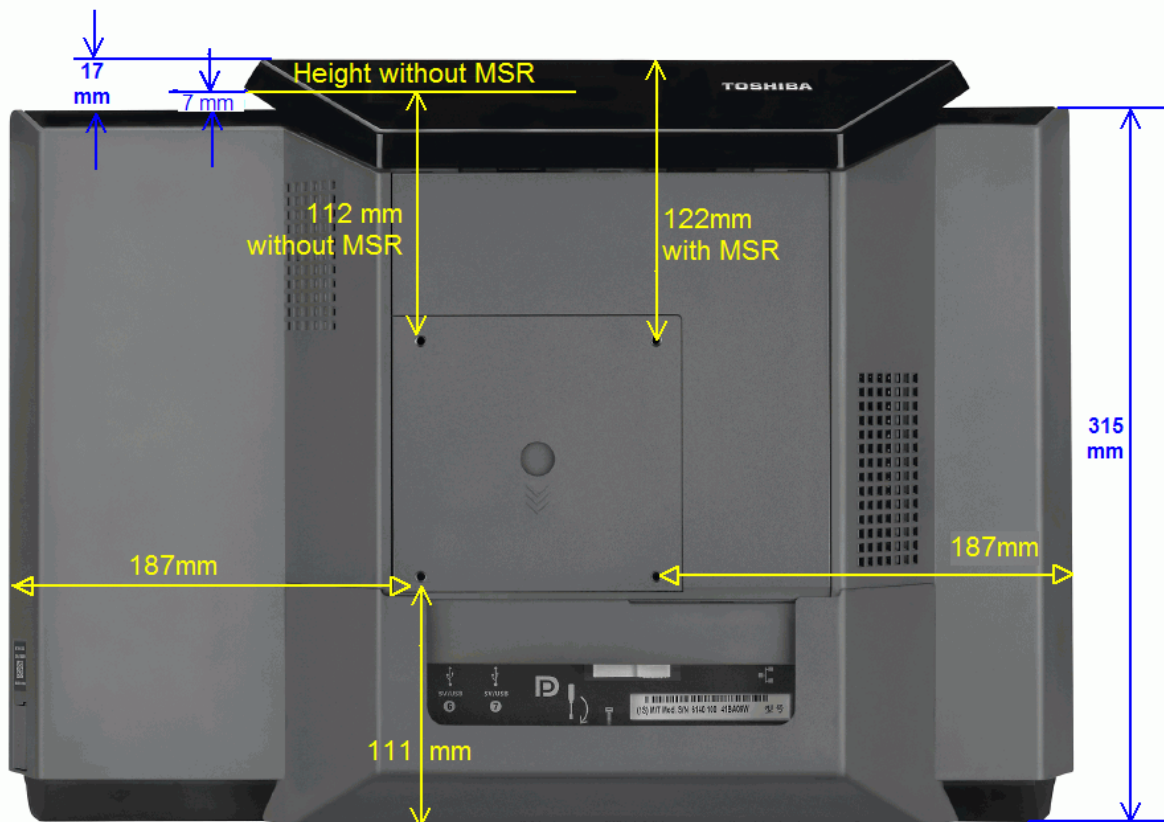
VESA MOUNTING – Models -1xx

Please note:

The recessed mounting area (2mm deep) on the back of the TCxWave is 119mm square. Therefore, if one has a VESA-100 standard plate, as defined below, (115mm square) it should fit inside the recessed area. The user is responsible for procuring M4 x screws that will hold it securely (depending on the thickness of the 3rd party plate, one would select a screw a minimum of 10mm plus the 3rd party plate thickness to 12mm plus the plate thickness)



The 6140-100, -120 VESA Cover FC 5101 has a rectangular inset 119mm x 119mm x 2mm. This cover is actually VESA Compliant.



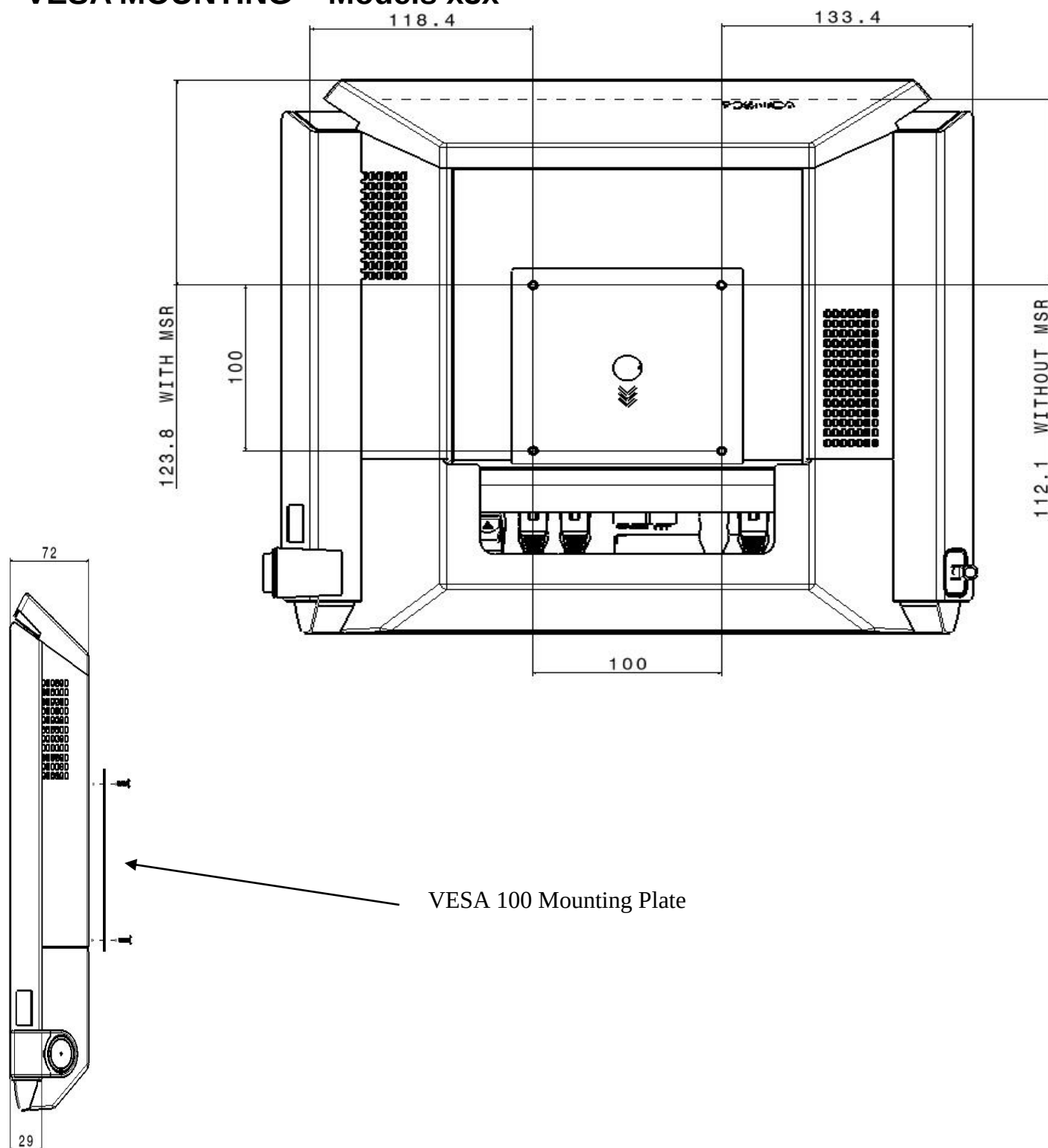
These are approximate dimensions made with a steel rule on a pre-production prototype.
It is strongly recommended that a production unit be obtained and used for any fabricated enclosure or mount

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VESA MOUNTING – Models x3x



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TCxWave Features

FEATURE	MFI PN	Image	DESCRIPTION
1020	Installed on system unit (1xx, x2x only)		Base system-1x24V USB,3x12V USB, 3 x PC USB, Ethernet, display port & dock THIS IS A Factory-only Feature.
1021	95Y4904 (1xx, x2x only)		SMU = 95Y4905 FRU = 95Y4938 I/O Base MES -1x24V USB,3x12V USB, 3 x PC USB, Ethernet, display port & dock This is available as an UPGRADE. For initial factory orders, please use FC 1020
1022	system unit x3x only		Base system-1x24V USB,3x12V USB, 3 x PC USB, Ethernet, display port & dock THIS IS A Factory-only Feature.
1023	00JA101 x3x only	 Designed for Toshiba 6149-5Cx display only because of the retaining thumbscrew to secure the mount to the backside of the display. YOU Should consider the Display Port cable 3430 with this feature	SMU = 00JA102 FRU = 00JA126 I/O Base MES -1x24V USB,3x12V USB, 3 x PC USB, Ethernet, display port & dock This is available as an UPGRADE. For initial factory orders, please use FC 1022
1024	7430967 x3x only		SMU = 7430968 FRU = 7431008 Attachment bracket to mount second display on Base (dock). Includes (4) shouldered screws, a rear cable cover for the display, and a chin cover for the display Designed for Toshiba 6149-5Cx displays NOTE: THIS IS IDENTICAL TO 6149 FC 7249. The Wave Dock FC 1022 or 1023 Base is required for proper mounting
1027	00JA208 x3x only		  FC 5190 IS REQUIRED SMU = 00JA209 FRU = 00JA210 TABLE TOP STAND Raven Black Please Note: The 4820 FC 4305 / 4306 Table Mount will NOT fit on the 6140. There are two mounting tabs on the 4820 mount that are not VESA 100 compliant – see inset

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		POS ADAPTER	
1400	95Y4919	 	NOTE: If there is <u>any</u> intention to use the TCxWave WITHOUT this Hub, you will need to order an TCxWave Power supply and line cord as an MES FC 4930. This feature is NOT in 4611-614 SMU = 40N7265 Hub and 2 Meter Cable FRU = See HW Service Guide for Hub parts Search the Knowledgebase for: R7000120 TCxWave POS Hub (5 powered USB + 1 cash drawer, includes a 4Meter System Power supply and 2Meter system-to-hub cable FRU= 40N6354 Hub FRU= 95Y4871 TCxWave POS cable (2Meters long) One may order this AFTER an initial machine order is placed. It is NOT in the Bulk-order 4611 machine type. You need to place an MES order against the 6140, and include your machine serial number in the order.
2021	40N6352		POS Hub Mount Bracket for POS Adapter (FC 1400) SMU = 40N6353 FRU 40N6358

Using the TCxWave as a POS terminal Without the USB HUB

A limited POS system can be configured without the use of the FC 1400 HUB.

The Legacy Cash Drawers FC 4881, 4408, 4409. and 4484 can be actuated from the 4610 printer if ordered via 4611-614 with the Cash Drawer cable Feature Code 3387.

The USB Cash drawers (FC 4508, 4509, 4510) can be attached (up to two devices) using the standard USB cable FC 4511.

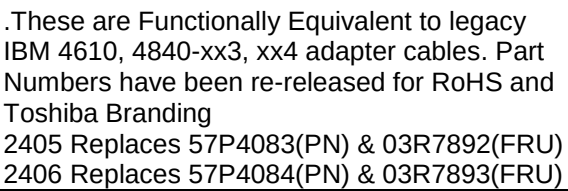
The 2x20 USB LCD FC 5951 can be ordered with the new Standard USB cable FC 4555.

Keyboards, if required, can be ordered with their STANDARD (non-powered) cables. The LCD 5951 is not supported for Greece.

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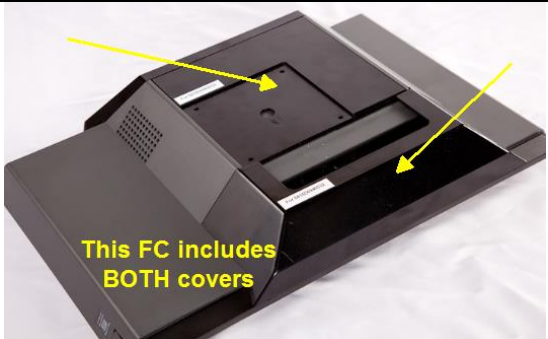
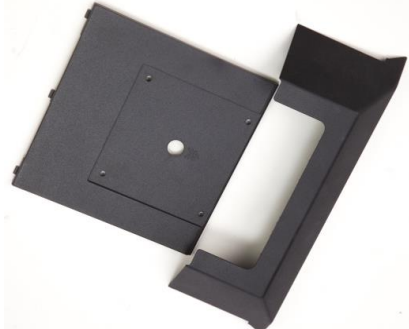
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FEATURE	MFI PN	Image	DESCRIPTION
4930	00L8069		SMU = 00L8070 FRU = 00L8071 Pick-pack (not installed in the terminal by the factory) Power Adapter. This is a common part with the 46t10 Printer family You must select a line cord. If ordering as an MES, there is a charge for the cord.
5179	00V0343 NOT RELEASED FOR MODELS x3x	 This is required if you intend to run the 4690 Operating System	SMU = 00V0344 FRU = 95Y4941 Pick-pack (not installed in the terminal by the factory) Micro SD Card
2405	40N5341 x3x only		SMU & FRU: 40N5341 RS-232 Cable – .75m - 9pin to RJ-45 (Also, see FC 5183) NOT ACCESSIBLE WITH BASE / DOCK
2406	40N5343 x3x only	 These are Functionally Equivalent to legacy IBM 4610, 4840-xx3, xx4 adapter cables. Part Numbers have been re-released for RoHS and Toshiba Branding 2405 Replaces 57P4083(PN) & 03R7892(FRU) 2406 Replaces 57P4084(PN) & 03R7893(FRU)	SMU & FRU: 40N5343 RS-232 Cable – 2.0m - 9pin to RJ-45 (Also, see FC 5183) NOT ACCESSIBLE WITH BASE / DOCK
5181	95Y4870	 You will get this cable if you order FC 1400. This is ONLY for use when one migrates from a 4838 AnyPlace Kiosk with	SMU&FRU = 95Y4871 Pick-pack (not installed in the terminal by the factory) Y cable 24V Powered USB, 2 meters long

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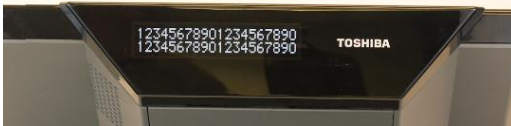
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		the FC 1400 POS Hub.	
FEATURE	MFI PN	Image	DESCRIPTION
5180	95Y4932		SMU&FRU = 95Y4933 Pick-pack (not installed in the terminal by the factory) USB to RS232 Adapter
5182	95Y4935		SMU&FRU = 95Y4936 Pick-pack (not installed in the terminal by the factory) Display Port to VGA Adapter Cable
5183	00JA342 x3x Models Only		SMU & FRU 00JA343 Powered RJ45 to RS232 Cable This is a 500mm long cable. The electronic package is 10x4x2cm, located 3cm off center toward the 9-pin end. NOT ACCESSIBLE WITH BASE / DOCK
5101	95Y4929 Models 1xx, x2x only		SMU = 95Y4930 FRU = 00V0303 VESA FRU = 00V0210 Cable cover Pick-pack (not installed in the terminal by the factory) Head Cable Cover / Rear VESA cover Iron Gray REQUIRED whenever the DOCK/BASE is not used.
5190	00JA108 x3x Models Only		SMU = 00JA109 FRU = 00JA138 VESA FRU = 00JA137 Cable cover Pick-pack (not installed in the terminal by the factory) Head Cable Cover / Rear VESA cover Raven Black REQUIRED whenever the DOCK/BASE is not used.

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		Integrated MSR and Display	
2600	95Y4920		SMU = 95Y4921 FRU = 00V0204 2x20 Display / USB (pick pack)
2601	95Y4923		SMU = 95Y4924 FRU = 00V0205 Mag Stripe Reader / USB (pick pack)
2602	95Y4926		SMU = 95Y4927 FRU = 00V0206 2x20 /MSR / USB (pick pack)
2603	00JA112 x3x Models Only	 • UPOS 1.13.7 or higher is needed to support this interface. • A keyboard wedge interface is not supported for the iButton reader. • Data read from the FC 2604 iButton Fob is eight bytes with a fixed value.	SMU = 00JA113 FRU = 00JA114 iButton Reader
2604	00JA115 x3x Models Only	 Ordering quantity one of FC 2604, results in receiving quantity one, black iButton fob, with random data string returned	SMU = 00JA116 FRU = not yet determined iButton CURRENTLY, MAX=1 for PLANT orders. Additional keys must be ordered via 4611-641 or as a traditional MES

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2605	00JA118 x3x Models Only	 The speaker kit replaces the lower chin and is available as both a plant and MES feature. When ordered with the unit as a plant feature, the speaker kit will be installed on the head.	SMU = 00JA119 FRU = 00JA120 Speaker Kit
		Storage and MEMORY Features	
7320	System -100,-120 series (not x3x models)		64GB System SSD for models -100 and -10D ONLY THIS IS A Factory-only Feature. The Models 100 an 10D do NOT have a drive included in the base price. You may wish to order either FC 7320 or 7328
7321	95Y4889 -100,-120 series (not x3x models)		SMU = 95Y4890 FRU = 00V0207 MES 64GB SSD (pick pack) for Upgrading diskless -100 models OR to have a spare drive.
7327	System -100,-120 series (not x3x models)		128GB System SSD for MODELS Exx Only. This is an upgrade to the standard 64Gb Preload Drive.
7328	System -100,-120 series (not x3x models)	The -100 and -10D models DO NOT have an SSD unless you order FC 7320 .	128GB System SSD for models -100 and -10D ONLY The Models 100 an 10D do NOT have a drive included in the base price. You may wish to order either FC 7320 or 7328
7329	9634929 -100,-120 series (not x3x models)	There is only space to hold ONE SSD at a time in this terminal. You may order FC 7321 or 7329 as a field upgrade to a diskless -100 / 120 model. You may also use FC 7321 or 7329 as a SPARE. You cannot install two drives into the same system.	SMU= 9634928 FRU= 9634921 MES 128GB SSD (pick pack) for Upgrading diskless -100 models OR to have a spare drive.

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7336	E3x ONLY	 THIS IS THE M.2 STYLE of SSD. This is NOT backward compatible to the -100 and -120 generations of the TCxWave NOTE: If you are planning to install a drive in the field, (as the second drive) then you need the FC 7326 Riser card.	128GB System M.2 SSD for PRELOAD
7335	E3x ONLY		64GB System M.2 SSD for PRELOAD Available Oct 31, 2014
7322	System x3x Only (EXCEPT E3x)		128GB System M.2 SSD
7323	00JA121 x3x only		SMU = 00JA122 FRU = 00JA123
7324	system x3x Only (Except E3x)		128GB M.2 SSD MES / Upgrade
7325	00JA124 x3x Only	 THIS IS FOR THE M.2 STYLE of SSD. This is NOT backward compatible to the -100 and -120 generations of the TCxWave	64GB System SSD M.2 Available Oct 31, 2014
7326	00JA150		SMU = 00JA125 FRU = 00JA136 64GB SSD M.2 MES / Upgrade Available Oct 31, 2014
7010	95Y4894 Models 1xx, x2x only		SMU = 00JA151 FRU = 00JA349 (includes three captured screws)
7011	System Models 1xx, x2x only		Second SSD installation kit THIS DOES NOT INCLUDE AN SSD MODULE. This is a RISER Only
7012	95Y4899 Models 1xx, x2x only		SMU = 95Y4895 FRU = 00V0208
		 -100,-120 series (not x3x models)	2GB Additional Memory (pick pack) 1 - 2GB DIMM
			4GB System Memory (1- 4GB DIMM installed) THIS IS A Factory-only Feature. Not available as an upgrade
			SMU = 95Y4900 FRU = 00V0209
			4GB Additional Memory (pick pack) 1 - 4GB DIMM

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7013	00JA186 x3x Only	 -x3x Series ONLY NOTE: THIS MEMORY in the x3x models MUST BE PAIRED. The Pairing applies to BOTH the capacity AND the RAW Card level.	SMU = 00JA187 FRU = 00JA188 2GB Additional Memory This Feature is not compatible if a 4Gb module (FC 7014) is in the machine.
7014	system x3x Only		FRU = 00JA207 4GB System Memory If you select this, then FC 7013 is not compatible in the second slot.
7015	00JA189 x3x Only		SMU = 00JA206 FRU = 00JA207 4GB Additional Memory If you select this, then FC 7014 MUST be on the machine order. This is not compatible with the base 2Gb in the standard machine configuration.

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FEATURE	MFI PN	Image	DESCRIPTION
		PRE-LOADED OS Features	
POSReady 2009			
4229 (E10) 4170 (E20)	System Installed		POSReady 2009 Full OS
4230 (E10) 4171 (E20)	00W3997		POSReady 2009 media language packs Order with New machine or as a traditional MES. This is NOT released into 4611
4231 (E10) 4172 (E20)	00V0332		POSReady 2009 IBM image Recovery Media Order with New machine or as a traditional MES. This is NOT released into 4611
POSReady 7			
4225 (E10) 4214 (E20) 4155 (E30)	System Installed		POSReady Full OS
4226 (E10) 4215 (E20) 4156 (E30)	00CU107 00JA236	NOT AVAILABLE AS A FRU. Order with new machine or via MES order with machine serial number for validation	POSReady 7 Lang Pkgs Order with New machine or as a traditional MES. This is NOT released into 4611
4227 (E10) 4216 (E20) 4157 (E30)	00CU104 00JA239	The "E" Models (Preloads) are a PREREQUISITE to the WIN-XP or the WIN-Vista features. An RPQ is required to add WEPOS, Win-XP, or WIN-Vista to this terminal	POSReady 7 Additional Components Order with New machine or as a traditional MES. This is NOT released into 4611
4228 (E10) 4217 (E20) 4158 (E30)	00V0336 00JA178	IT IS STRONGLY RECOMMENDED THAT YOU ORDER ONE RECOVERY DISK FOR EACH LOCATION.	POSReady media - IBM image Recovery Media Order with New machine or as a traditional MES. This is NOT released into 4611
Windows 7 Pro		THE LANGUAGE PACKS ARE LICENCED ONE COPY FOR AN ENTIRE ENTERPRISE. IT IS ONLY NECESSARY TO ORDER QTY=ONE	
4220 (E10)32 4173 (E20)32 ~~4159 (E30)32~~ 4161 (E30)64	System Installed		Windows 7 Professional
4221 (E10) 4174 (E20) 4160 (E30)32 4161 (E30)64	00V0395 00JA232 00JA286	LANGUAGE PACKS contain tools required to restore any Windows components that you may have deleted. It is strongly recommended that at least one Language pack be ordered for each enterprise.	Windows 7 Professional Recovery DVD Order with New machine or as a traditional MES. This is NOT released into 4611

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Modular Keyboards

FEATURE	MFI PN	Image	DESCRIPTION
PRE-CONFIGURED US-English KEYBOARDS			
1350	7431232	 This keyboard cannot be used with the 4690OS.	SMU = 7431133 Modular CANPOS w/Pointer US English (no MSR, no keylock, no fingerprint reader) IRON GRAY ONLY USA ONLY NOTE – This Feature is not released to 4611
1355	7431237 (Iron Gray)	 NOTE: You need to order a standard keylock FC 9202-9206	SMU = 7431138 (Iron) IRON GRAY ONLY USA ONLY Modular 67 Key Keyboard w/MSR & Keylock, no Pointer / Touchpad This Feature is not released to 4611
1356	7431239	 NOTE: You need to order a standard keylock FC 9202-9206	SMU = 7431140 (Iron) IRON GRAY ONLY USA ONLY Modular 67 Key Keyboard w/LCD, w/MSR & Keylock, no Pointer / Touch-pad This Feature is not released to 4611
1351	7431215 (Iron Gray)	 NOTE: You need to order a standard keylock FC 9202-9206	SMU = 7431118 (Iron) IRON GRAY ONLY USA ONLY MODULAR ANPOS KEYBOARDw/MSR, Touch Pad/Ptr, Keylock US English This Feature is not released to 4611
FACTORY INTEGRATION of KEYBOARD FEATURES			
1111	51J3374	FOR TEMINAL ORDERS ONLY. NOT AVAILABLE FOR MES or 4611-614	Integration of Keyboard Features This Feature is not released to 4611

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6140 TCxWave

Toshiba Global Commerce Solutions

FEATURE	MFI PN	Image	DESCRIPTION
COMPACT ANPOS KEYBOARDS			
2250	7431220		SMU= 7431121 FRU= 50Y7021 Modular - US-English
2251	7431222		SMU= 7431123 FRU= 50Y7023 Modular - UK English
2252	7431223		SMU= 7431124 FRU= 50Y7024 Modular French
2253	7431225		SMU= 7431126 FRU= 50Y7026 Modular - Canadian French
2254	7431221		SMU= 7431122 FRU= 50Y7022 Modular - Spanish
2255	7431226		SMU= 7431127 FRU= 50Y7027 Modular - Brazil / Port
2256	7431224		SMU= 7431125 FRU= 50Y7025 Modular
2257	7431227		NOTE – This keyboard cannot be used with the 4690OS SMU= 7431128 FRU= 50Y7028 Modular - Turkey
67-Key Keyboards			
2270	7431233 (Iron Gray)		SMU= 7431134 FRU= 50Y7032 67 Key Keyboard
2240	7431235		SMU= 7431136 FRU= 50Y7034 67 Key Keyboard with LCD

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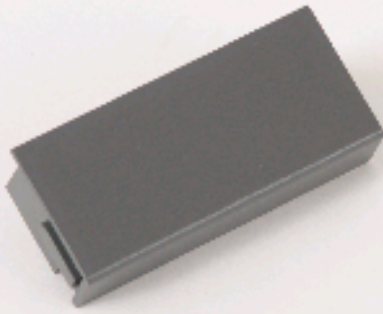
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FEATURE	MFI PN	Image	DESCRIPTION
MODULAR ANPOS KEYBOARD			
2292	7431207		SMU= 7431107 FRU= 50Y7007 MODULAR ANPOS KEYBOARD KB (Braz/Port)
2282	7431206		SMU= 7431106 FRU= 50Y7006 MODULAR ANPOS KEYBOARDKB (Can/Fr)
2284	7431203		SMU= 7431103 FRU= 50Y7003 MODULAR ANPOS KEYBOARDKB (UK Eng)
2286	7431204		SMU= 7431104 FRU= 50Y7004 MODULAR ANPOS KEYBOARDKB (French)
2288	7431205		SMU= 7431105 FRU= 50Y7005 MODULAR ANPOS KEYBOARDKB (German)
2290	7431202		SMU= 7431102 FRU= 50Y7002 MODULAR ANPOS KEYBOARDKB (Spanish)
2280	7431201		SMU= 7431101 FRU= 50Y7001 MODULAR ANPOS KEYBOARDKB (US Eng)-
KEYBOARD FEATURES			
2260	51J3349 (G)		SMU = 44T4080 (G) FRU= 44T4090 (G) 3-Track MSR Module
2262	44T4982 (G)		SMU = 44T4082 (G) FRU= 44T4092 (G) JUCC MSR Module
2264	51J3352 (G) (Mutually exclusive with Fingerprint Module FC 2268)		SMU = 44T4084 (G) FRU= 44T4094 (G) 2-position Keylock Module Iron Gray NOTE: You need to order a standard keylock FC 9202-9206
2266	51J3354 (G)		THIS FEATURE IS NOT AVAILABLE FOR THE 67-Key Keyboards SMU = 44T4104 (G) FRU= 44T4096 (G) Touch Pad/Pointer Module

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FEATURE	MFI PN	Image	DESCRIPTION
2268	51J3356 (G) (Mutually exclusive with Keylock FC 2264)	 THIS MODULE is NOT supported with 4690OS	SMU = 44T4102 (G) FRU= 44T4098 (G) Fingerprint Module
1370	46V4070 MES ONLY	 This is included on any kbd that is ordered without an MSR	SMU = 44T4081 (G) FRU= 46Y2356 (G) Filler MSR Iron Gray THIS IS NOT REQUIRED FOR A NEW FACTORY ORDER. IF YOU ARE ORDERING AN MES UPGRADE KEYBOARD, THEN YOU NEED TO ORDER THIS PART
1374	46V4072 MES ONLY	 This is included on any kbd that is ordered without an Authentication module	SMU = 44T4085 (G) FRU= 46Y2358 (G) Filler Authentication Module Iron Gray THIS IS NOT REQUIRED FOR A NEW FACTORY ORDER. IF YOU ARE ORDERING AN MES UPGRADE KEYBOARD, THEN YOU NEED TO ORDER THIS PART
1376	46V4074 MES ONLY	 This is included on any kbd that is ordered without a touchpad	SMU = 44T4087 (G) FRU= 46Y2360 (G) Filler Touch Pad/Pointer Iron Gray THIS IS NOT REQUIRED FOR A NEW FACTORY ORDER. IF YOU ARE ORDERING AN MES UPGRADE KEYBOARD, THEN YOU NEED TO ORDER THIS PART

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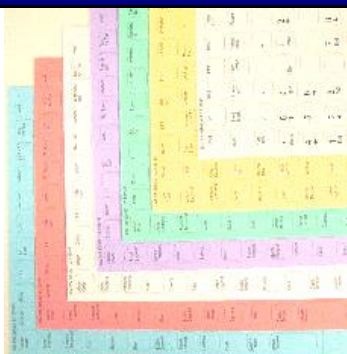
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FEATURE	MFI PN	Image	DESCRIPTION
KEYBOARD CABLES			
1320	45X0501		USB cable 1.4M Black FRU & SMU =45U0016
1321	45X0503		USB cable 3.8M Black FRU & SMU =45U0018
Lens Kits and Key Kits			
1420	45X0516 This is SHIPPED with each NEW keyboard from the factory.		SMU - 46Y2370 FRU = 46T6703 Modular 67 Key Keyboard Lens Kit
1421	45X0512 This is SHIPPED with each NEW keyboard from the factory.		SMU - 46Y2341 FRU = 46T6701 MODULAR ANPOS KEYBOARD Lens Kit
1422	45X0514 This is SHIPPED with each NEW keyboard from the factory.		SMU - 46Y2342 FRU = 46T6702 Modular CANPOS Lens Kit
1426	46V4110		SMU - 46Y2344 FRU = 46T6704 Keyboard Key Caps - 1x1 SS (25 units)
1427	46V4111		SMU - 46Y2345 FRU = 46T6705 Keyboard Key Caps - 1x2 (25 units)
1428	46V4112		SMU - 46Y2346 FRU = 46T6706 Keyboard Key Caps - 1x1 Tall (25 units)
1429	46V4113		SMU - 46Y2347 FRU = 46T6707 Keyboard Key Caps - 1x2 Tall (25 units)
1430	46V4114		SMU - 46Y2348 FRU = 46T6708 67 Key Keyboard Single Caps – 1x1 (25 units)
1431	46V4115		SMU - 46Y2349 FRU = 46T6709 67 Key Keyboard Double Caps - 1x2 (25 units)

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FEATURE	MFI PN	Image	DESCRIPTION
1432	46V4116		SMU - 46Y2350 FRU = 46T6710 67 Key Keyboard Single Caps – 1x1 Tall (25 units)
1433	46V4117		SMU - 46Y2371 FRU = 46T6711 67 Key Keyboard Double Caps - 1x2 WT Tall (25 units)
LEGEND SHEETS and ACCESSORIES			
1423	45U0045		SMU = 60G1389 MODULAR ANPOS KEYBOARD KB Label - Blank
1424	45U0046		SMU = 60G1389 MODULAR CANPOS KEYBOARD KB Label – Blank
1425	45U0047		SIX BLANK Sheets per package One package contains SIX sheets Warm Gray, Violet, Green, Red, Blue, Yellow SMU = 60G1314 + 60G1314 Modular 67 Key Keybd Label - Blank
ACCESSORIES			
	46V4107	USA Only	Blanking bar, 67-key black, kit of 5
	46V4109	USA Only	Blanking bar, ANPOS black, kit of 5
	93F1944	USA Only	Key Puller Kit

POS Peripherals

Feature	MFI PN	Image	Description
		USB Customer Displays	
5946 NOT RELEASED IN USA and Canada	75P7064 (SBCS) Formerly RPQ 8Q3162 Or 75P7063 (DBCS) Formerly RPQ 8Q3162		SMU (SBCS)– 7430824 SMU (DBCS)– 7430823 All Points Addressable Character Graphics Display (Powered USB) IRON GRAY Requires Cables FC 5570, 5572, or 5575 FRU (7430874 SBCS Complete) (7430873 DBCS Complete) see I/O HW Service Guide, assembly #6

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Feature	MFI PN	Image	Description
5951	75P7072		USB 40 Char LCD- iron SMU – 7430832 FRU (7430882 Complete) see I/O HW Service Guide, assembly #5 FC 1400 POS HUB Required if you use cable 5560 or 5597 This can be used WITHOUT the POS Hub by selecting FC 4555. SEE Using the TCxWave as a POS terminal Without the USB HUB on page 11
5961	75P7045		USB 40 Char VFD (1-sided)- iron gray Requires Cables FC 5570, 5572, or 5575 SMU – 7430805 FRU (7430855 Complete) see I/O HW Service Guide, assembly #5
5560	08L2141		SMU &FRU 42M5606 Long LCD USB Cable- powered USB 3.8M
5097	41D0308		SMU &FRU 41D0309 Medium LCD USB Cable- powered USB 1.8m

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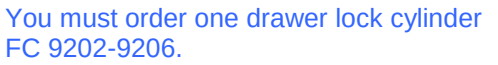
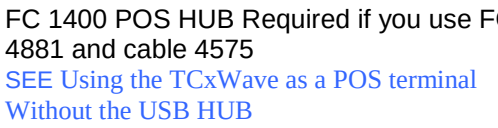
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Feature	MFI PN	Image	Description
4555	40N6715		THIS CABLE can be used with the LCD FC 5951 WITHOUT requiring the POS Hub FC 1400. SEE Using the TCxWave as a POS terminal Without the USB HUB on page 11 SMU &FRU 40N6716 USB LCD Long Cable- standard USB 3.8M
5575	08L2143		SMU &FRU 42M5630 Medium VFD or APA USB Cable 1.8M
5572	07K5155		SMU &FRU 42M5670 Medium VFD or APA USB Cable 1.8M
5570	08L2144		SMU &FRU 42M5632 Long VFD USB or APA Cable 3.8M
Cash Drawers			
4508	40N7207		SMU = 40N7215 New USB Compact Cash Drawer with One Vertical Till. If you desire additional tills, the legacy tills FC 4775 may be ordered
4509	40N7211		SMU = 40N7219 New USB Compact Cash Drawer with ONE Horizontal Till. If you desire additional tills, the legacy tills FC 4770 may be ordered
4408	40N7206		FC 1400 POS HUB Required if you use FC 4408/09 and cable 4575 SEE Using the TCxWave as a POS terminal Without the USB HUB on page 11 SMU = 40N7214 Legacy SDL Compact Cash Drawer with One Vertical Till. If you desire additional tills, the legacy tills FC 4775 may be ordered

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Feature	MFI PN	Image	Description
4409	40N7210		SMU = 40N7218 Legacy SDL Compact Cash Drawer with ONE Horizontal Till. If you desire additional tills, the legacy tills FC 4770 may be ordered
4510	40N7247		SMU = 40N7248 New USB WIDE Cash Drawer (Without Till Insert)
4881	40N7253	 FC 1400 POS HUB Required if you use FC 4881 and cable 4575 SEE Using the TCxWave as a POS terminal Without the USB HUB	Full Size Cash Drawer You must order one drawer lock cylinder FC 9202-9206. SMU – 40N7254 FRU – See I/O Service Manual for multiple Parts – Assembly #2
4484	Formerly RPQ 8Q2918 46T7216	 FC 1400 POS HUB Required if you use FC 4881 and cable 4575	SMU - 46T7217 FRU 46T7218 Flip Top Drawer -Iron Gray – This Feature INCLUDES ONE Till and One Locking cover. You must order one drawer lock cylinder FC 9202-9206. The internal till cover lock will be randomly assigned. There is no FRU replacement for this key.
4511	46N4336		SMU & FRU 73Y0693 Standard USB cable - 3.8M
4512	46N4337		SMU & FRU 73Y0736 Powered USB cable - 3.8M

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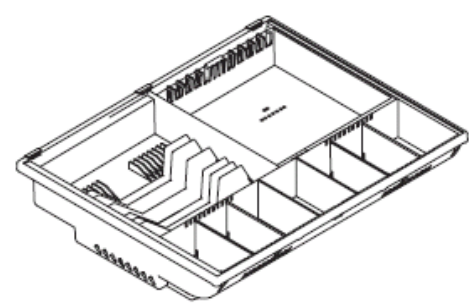
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Feature	MFI PN	Image	Description
3387	72H3811		SMU & FRU 40N4779 Distributed SureMark Printer-to-Legacy Cash drawer cable – 3.8M This cable activates the Cash Drawer from the 4610 Printer This can be used WITHOUT the POS Hub. SEE Using the TCxWave as a POS terminal Without the USB HUB on page 11
4575	42M5656		SMU & FRU 42M5657 Distributed Cash Drawer Cable 3.8M Attaches to the Port 3A on FC 1400 POS Adapter Hub
6097	41J8960		Medium Cash Drawer Cable SMU & FRU 41J8961 1.48M Attaches to the Port 3A on FC 1400 POS Adapter Hub
4765	10H3340		SMU & FRU 10H3341 Locking Till Cover for Compact Cash Drawer
4875	6316718		SMU & FRU 6316718 Locking Till Cover for Full Size Cash Drawer
4775	10H3330		THIS IS ONLY REQUIRED IF YOU INTEND TO HAVE MORE THAN ONE TILL. FC 4408 INCLUDES One of these SMU & FRU 10H3331 Lower-level FRUs are available in the I/O Service Guide Vertical Till Insert for Compact Cash Drawer

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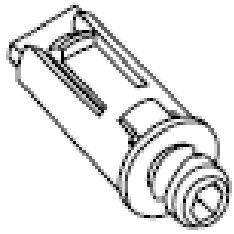
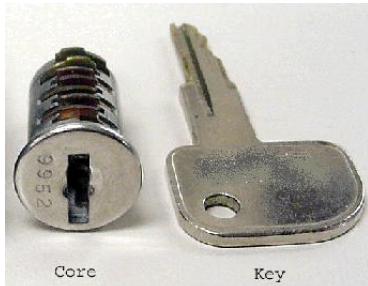
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Feature	MFI PN	Image	Description
4770	10H3370		THIS IS ONLY REQUIRED IF YOU INTEND TO HAVE MORE THAN ONE TILL. FC 4409 INCLUDES One of these SMU & FRU 10H3371 Lower-level FRUs are available in the I/O Service Guide Horizontal Till Insert for Compact Cash Drawer
4870	4783880		SMU & FRU 4783880 Lower-level FRUs are available in the I/O Service Guide Adjustable Till Insert for Full Size Cash Drawer
4865	4783879		SMU & FRU 4783879 Lower-level FRUs are available in the I/O Service Guide Fixed Till Insert for Full Size Cash Drawer
4866	42P8020		SMU & FRU 42P8025 Lower-level FRUs are available in the I/O Service Guide Euro Till (WIDE DRAWER ONLY)
4485	Formerly RPQ 8Q2922 46T7219		FRU 46T7221 EXTRA Fliptop Till & Locking Cover The internal till cover lock will be randomly assigned. There is no FRU replacement for this key.

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Feature	MFI PN	Image	Description
9200	41D9798 Iron Gray 4611-MES 41D9805		SMU and FRU 41D9799 Non-operative lock Iron Gray IF this is ordered as a 4611 MES item, you will receive one each of the non-operative locks - pebble gray qty=1 (for legacy systems) - iron gray qty=1 - litho gray qty=1 (for legacy systems)
9202	41J8102		SMU and FRU = 41J8078 Lock insert (2)
9203	41J8103		SMU and FRU = 41J8079 Lock insert (3)
9204	41J8104		SMU and FRU = 41J8080 Lock insert (4)
9205	41J8105		SMU and FRU = 41J8081 Lock insert (5)
9206	41J8106		SMU and FRU = 41J8082 Lock insert (6)
9218	72H2632		SMU 41J8099 RANDOMLY-Assigned Keylock
9521	00CU276		NOTE – NEW DESIGN FOR ALIGNMENT TOOL. SMU and FRU 00EP016 Key Change Kit
4380	41J8112		SMU and FRU = 41J8088 Cash Drawer Prem Lock (1)
4375	41J8113		SMU and FRU = 41J8089 Cash Drawer Prem Lock (2)
4370	41J8114		SMU and FRU = 41J8090 Cash Drawer Prem Lock (3)
4365	41J8115		SMU and FRU = 41J8091 Cash Drawer Prem Lock (4)
4360	41J8116		SMU and FRU = 41J8092 Cash Drawer Prem Lock (5)

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Printer Options for Model EP1 Only

FEATURE	MFI PN	Image	DESCRIPTION
STD	6140-EP1 ONLY	 4610-1NR Printer, Iron Gray, with USB Interface	For Model –EP1 Only – This is the included printer. This will not appear on your configuration since it is not a feature (It is a standard element) FRU= 50Y0023 Interface Adapter Only
4919	10N1497		SMU & FRU: 40N4720 USB Signal+Power Cable 24V – 1.8M
4925	08L2146		SMU & FRU: 40N4716 USB Signal+Power Cable 24V 3.8m
4924	08L2148		SMU & FRU: 40N4767 Std USB 5 meters (A-B Connectors)

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Line Cords - INLINE (C13-style)



FEAT	MFI PN	FRU PN	DESCRIPTION	
9820	44D1635	39M5233	2.8M Non-Locking, Brazil	Brazil only
9825	29P7171	39M5080	1.8M Non-Locking, Columbia	Colombia, Venezuela, Peru, Ecuador
9840	29P7158	39M5173	Non-Locking, Israel	Israel
9845	29P7159	39M5166	Non-Locking, Italy	Italy
9850	29P7155	39M5159	Non-Locking, Switzerland	Switzerland
9855	29P7153	39M5152	Non-Locking, UK/Ireland	UK/Ireland
9860	29P7151	39M5145	Non-Locking, South Africa	South Africa
9865	29P7149	39M5131	Non-Locking, Denmark	Denmark
9870	29P7163	39M5124	Non-Locking, Euro	Euro, France, Greenland, St. Lucia, Saint Vincent and the Grenadines
9873	29P7169	39M5110	Locking, US	US except Chicago
9875	29P7167	39M5082	Non-Locking, US	US except Chicago, Anguilla, Cayman Islands, Turks and Caicos Islands, Virgin Islands (British)
9880	29P7171	39M5080	Non-Locking, 1.8M CHICAGO	FC 9880 is required in Chicago
9890	44D0890	39M5200	Non-Locking, JPN	Japan
9898	29P7153	39M5152	Non-Locking, HK	Dominica, Grenada, Hong Kong, Montserrat, Saint Kitts and Nevis

REVISION HISTORY

Jan 11, 2013 – Ver 1.0 Initial Release

Jan 21, 2013 – Ver 1.1 Minor Corrections and clarifications

Jan 30, 2013 - Ver 1.2 Completed the PNs for the FC 1400 hub

Feb 01, 2013 Ver 1.3 Added clarifications and warnings about SSD ordering

April 18, 2013 Ver 1.4 Added VESA Mounting and cleaned-up reference links

July 11, 2013 Ver 1.5 Clarified Display / MSR and cash drawer cables

August 22, 2013 Ver 1.5a – Corrected FRU number on the USB Display

August 23, 2013 – Ver 1.6 – Included European Printer bundle EP1

October 22, 2013 – Ver 1.7 – Added 128Gb SSD Options

January 9, 2014 – Ver 2.0 – Introducing the x2x models with the i3 processor

May 18, 2014 – Ver 3.0 – Introducing the Models x3x

May 21, 2014 – Ver 3.1 Day After announce Corrections and Comments

May 22, 2014 – Ver 3.2 – Typographical corrections

May 27, 2014 – Ver 3.4 – Added FC 1023

June 3, 2014 – Ver 3.5 - Added –A30 Mounting diagram and corrected info on FC 1027

June 9, 2014 – Ver 3.5a – Un-erased 5180

June 12, 2014 – Ver 3.6 – Added images for VESA Cover. Incorporated new design for Riser cards

June 17, 2014 – Ver 3.7 – Added elucidation to FC 1024 and 1027

June 20, 2014 – Ver 3.7a – Removed reference to a bundle that was not released

June 25, 2014 – Ver 3.8 – Clarified FC 1024 and 1027 pre-requisites

September 8, 2014 – Ver 3.9 – Models x3x Paired Memory Restrictions

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September 11, 2014 – Ver 4.0 – Corrected FC 4930 note on FC 1400